

## 03040201-050

### (Pee Dee River)

#### General Description

Watershed 03040201-050 is located in Marlboro, Chesterfield, Darlington, and Florence Counties and consists primarily of the **Pee Dee River** and its tributaries from Whites Creek to Black Creek. The watershed occupies 225,702 acres of the Sandhills and Upper and Lower Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Chastain-Tawcaw-Lakeland-Pelion-Norfolk series. The erodibility of the soil (K) averages 0.20; the slope of the terrain averages 7%, with a range of 0-15%. Land use/land cover in the watershed includes: 32.5% forested land, 22.6% scrub/shrub land, 20.6% forested wetland (swamp), 18.0% agricultural land, 4.4% water, 1.7% urban land, and 0.2% barren land.

This section of the Pee Dee River accepts drainage from its upstream reaches, along with the Whites Creek Watershed, the Westfield Creek Watershed, Hicks Creek, Husbands Creek, Huckleberry Branch (Wilson Branch), and the Thompson Creek Watershed near the Town of Cheraw. Phils Creek (Wolf Creek, Andersons Millpond, Grants Millpond) enters the river next, followed by Beaverdam Creek, Tarkiln Creek, Naked Creek (Bullards Millpond, McLaurins Millpond, Davids Millpond, Herndon Branch), the Crooked Creek Watershed, Hugh Creek, Reedys Branch, and the Cedar Creek Watershed. Further downstream, near the Town of Society Hill, the river accepts drainage from Buckholtz Creek (Lake Darpo or Spring Lake), Henegan Lake, Lake Creek, Flat Creek, and the Three Creeks Watershed. Another Flat Creek enters the system downstream of Three Creeks, followed by Rogers Creek (Mosey Bay), Hurricane Branch, and Back Swamp (Fountain Branch, Alligator Creek). There are numerous lakes and ponds (totaling 1,493.2 acres) in this watershed and a total of 423.2 stream miles, all classified FW.

#### Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
PD-012	P	FW	PEE DEE RIVER AT US 1 NE CHERAW
PD-015	P	FW	PEE DEE RIVER AT US 15 & 401
PD-028	P	FW	PEE DEE RIVER AT SC 34 11 MILES NE DARLINGTON

**Pee Dee River** - There are three monitoring sites along this section of the Pee Dee River. Aquatic life uses are fully supported at the furthest upstream site (**PD-012**). Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentration suggest improving conditions for these parameters. Very high concentrations of cadmium and lead were measured in the 1998 sediment sample. Also in sediments, O,P'DDD (a metabolite of DDT) and PCB-1242 were detected in the 1994 sample, PCB-1248 was detected in the 1996 sample, P,P'DDE (a metabolite of DDT) was detected in the 1997 sample, and P,P'DDT (a metabolite of DDT) was detected in the 1998 sample. Although the use of DDT was banned in 1973, it is very persistent in the environment. Recreational uses are partially supported due to fecal coliform bacteria excursions, compounded by a significant increasing trend in fecal coliform

bacteria concentration. At the next site downstream (**PD-015**), aquatic life and recreational uses are fully supported.

Aquatic life uses are not supported at the downstream site (**PD-028**) due to occurrences of copper in excess of the aquatic life acute standards. In addition, there was a significant decreasing trend in dissolved oxygen concentration. Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentration suggest improving conditions for these parameters. Recreational uses are fully supported.

**Lake Darpo** - Aquatic herbicides were applied in 1990 to control aquatic plants and provide access for swimming and boating. The treatment was successful and no additional treatments have been necessary.

*A fish consumption advisory has been issued by the Department for mercury and includes the Pee Dee River within this watershed (see advisory p.115).*

## NPDES Program

### Active NPDES Facilities

<b>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT</b>	<b>NPDES# TYPE LIMITATION</b>
PEE DEE RIVER MOHAWK IND./OAK RIVER MILL PIPE #: 001 FLOW: 0.05 PIPE #: 002, 003 FLOW: M/R	SC0001996 MINOR INDUSTRIAL EFFLUENT EFFLUENT
PEE DEE RIVER GALEY & LORD, INC. PIPE #: 001 FLOW: 6.5 WQL FOR DO	SC0002704 MAJOR INDUSTRIAL WATER QUALITY
PEE DEE RIVER TOWN OF CHERAW WWTP PIPE #: 001 FLOW: 4.0	SC0020249 MAJOR DOMESTIC EFFLUENT
PEE DEE RIVER WILLIAMETTE INDUSTRIES/MARLBORO MILL PIPE #: 001 FLOW: 15.0 WQL FOR DO	SC0042188 MAJOR INDUSTRIAL WATER QUALITY
PEE DEE RIVER DELTA MILLS MKTG PIPE #: 001 FLOW: 4.2	SC0002151 MAJOR INDUSTRIAL EFFLUENT
HICKS CREEK DELTA MILLS MKTG PIPE #: 002 FLOW: 0.041	SC0002151 MINOR INDUSTRIAL EFFLUENT
HUCKLEBERRY BRANCH TOWN OF CHERAW/WTP	SCG645011 MINOR DOMESTIC

PIPE #: 001 FLOW: M/R

EFFLUENT

## Nonpoint Source Management Program

### ***Camp Facilities***

***FACILITY NAME/TYPE  
RECEIVING STREAM***

***PERMIT #  
STATUS***

PINE HILL BAPTIST RETREAT/RESIDENT  
PHILS CREEK

34-0031  
ACTIVE

GIRL SCOUT CAMP/RESIDENT  
PHILS CREEK

34-0032  
ACTIVE

CAMP PEE DEE/RESIDENT  
PHILS CREEK

34-0006  
ACTIVE

### ***Land Disposal Activities***

#### **Landfill Facilities**

***LANDFILL NAME  
FACILITY TYPE***

***PERMIT #  
STATUS***

PALMETTO BRICK  
INDUSTRIAL

IWP-014  
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CHESTERFIELD CO. LANDFILL  
MUNICIPAL

DWP-017  
CLOSED

WILLIAMETTE IND. MARLBORO MILL  
INDUSTRIAL

353301-1601 (IWP-243)  
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#### **Land Application Sites**

***LAND APPLICATION SYSTEM  
FACILITY NAME***

***ND#  
TYPE***

SPRAYFIELD  
POWELL MANUFACTURING CO., INC.

ND0000639  
DOMESTIC

### ***Mining Activities***

***MINING COMPANY  
MINE NAME***

***PERMIT #  
MINERAL***

PALMETTO BRICK CO.  
IRBY MINE

0171-69  
CLAY

BECKER SAND & GRAVEL CO.  
MARLBORO FIELD PLANT

0096-69  
SAND/GRAVEL

BECKER MINERALS, INC.  
CASH PLANT

0092-25  
SAND/GRAVEL

PEE DEE SAND & GRAVEL  
PEE DEE MINE

0466-25  
SAND/GRAVEL

DARLINGTON COUNTY

0967-31

## Water Supply

### ***WATER USER (TYPE) STREAM***

### ***REGULATED CAPACITY (MGD) PUMPING CAPACITY (MGD)***

TOWN OF CHERAW (M)  
PEE DEE RIVER

6.0  
11.5

DELTA MILLS MKTG (M)  
PEE DEE RIVER

7.2  
10.0

## Growth Potential

There is a moderate potential for growth in this watershed, which contains the Town of Cheraw and a portion of the Town of Society Hill, and is projected to have one of the largest population growth rates in the region. There are numerous industries in the watershed, most in and around the municipal limits of Cheraw. Commercial development is also centered around Cheraw, particularly west of town along S.C. Hwy. 9, and additional growth is expected. A large portion of the watershed is not served by public water or sewer systems, primarily due to the large expanse of the floodplain associated with the Pee Dee River. These services are provided in and immediately around the Town of Cheraw, and along S.C. Hwy. 34 east of the City of Darlington. The Town of Cheraw is planning a wastewater treatment plant upgrade that should encourage further growth.